

Title (en)
IMAGE SENSOR WITH IMPROVED LIGHT SENSITIVITY

Title (de)
BILDSSENSOR MIT ERHÖHTER LICHTEMPFLINDLICHKEIT

Title (fr)
CAPTEUR D'IMAGE AVEC UNE SENSIBILITÉ AMÉLIORÉE

Publication
EP 2022258 A2 20090211 (EN)

Application
EP 07794716 A 20070510

Priority
• US 2007011276 W 20070510
• US 41957406 A 20060522

Abstract (en)
[origin: US2007268533A1] An image sensor for capturing a color image is disclosed having a two-dimensional array having first and second groups of pixels wherein pixels from the first group of pixels have narrower spectral photoresponses than pixels from the second group of pixels and wherein the first group of pixels has individual pixels that have spectral photoresponses that correspond to a set of at least two colors, with the placement of the first and second groups of pixels defining a pattern that has a minimal repeating unit including at least six pixels with at least some rows or columns of the minimal repeating unit composed only of pixels from the second group of pixels, and including ways to combine similarly positioned pixels from at least two adjacent minimal repeating units.

IPC 8 full level
H04N 5/335 (2006.01); **H04N 5/347** (2011.01); **H04N 9/07** (2006.01)

CPC (source: EP US)
H04N 23/843 (2023.01 - EP US); **H04N 25/00** (2023.01 - EP US); **H04N 25/134** (2023.01 - EP US); **H04N 25/136** (2023.01 - EP US)

Citation (search report)
See references of WO 2007139675A2

Designated contracting state (EPC)
DE GB NL

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
US 2007268533 A1 20071122; US 7916362 B2 20110329; CN 101449575 A 20090603; CN 101449575 B 20120307; EP 2022258 A2 20090211; EP 2022258 B1 20190410; JP 2009538563 A 20091105; JP 5149279 B2 20130220; KR 101441696 B1 20140917; KR 20090019800 A 20090225; US 2011211109 A1 20110901; US 8194296 B2 20120605; WO 2007139675 A2 20071206; WO 2007139675 A3 20080403

DOCDB simple family (application)
US 41957406 A 20060522; CN 200780018755 A 20070510; EP 07794716 A 20070510; JP 2009512027 A 20070510; KR 20087028539 A 20070510; US 2007011276 W 20070510; US 201113044840 A 20110310